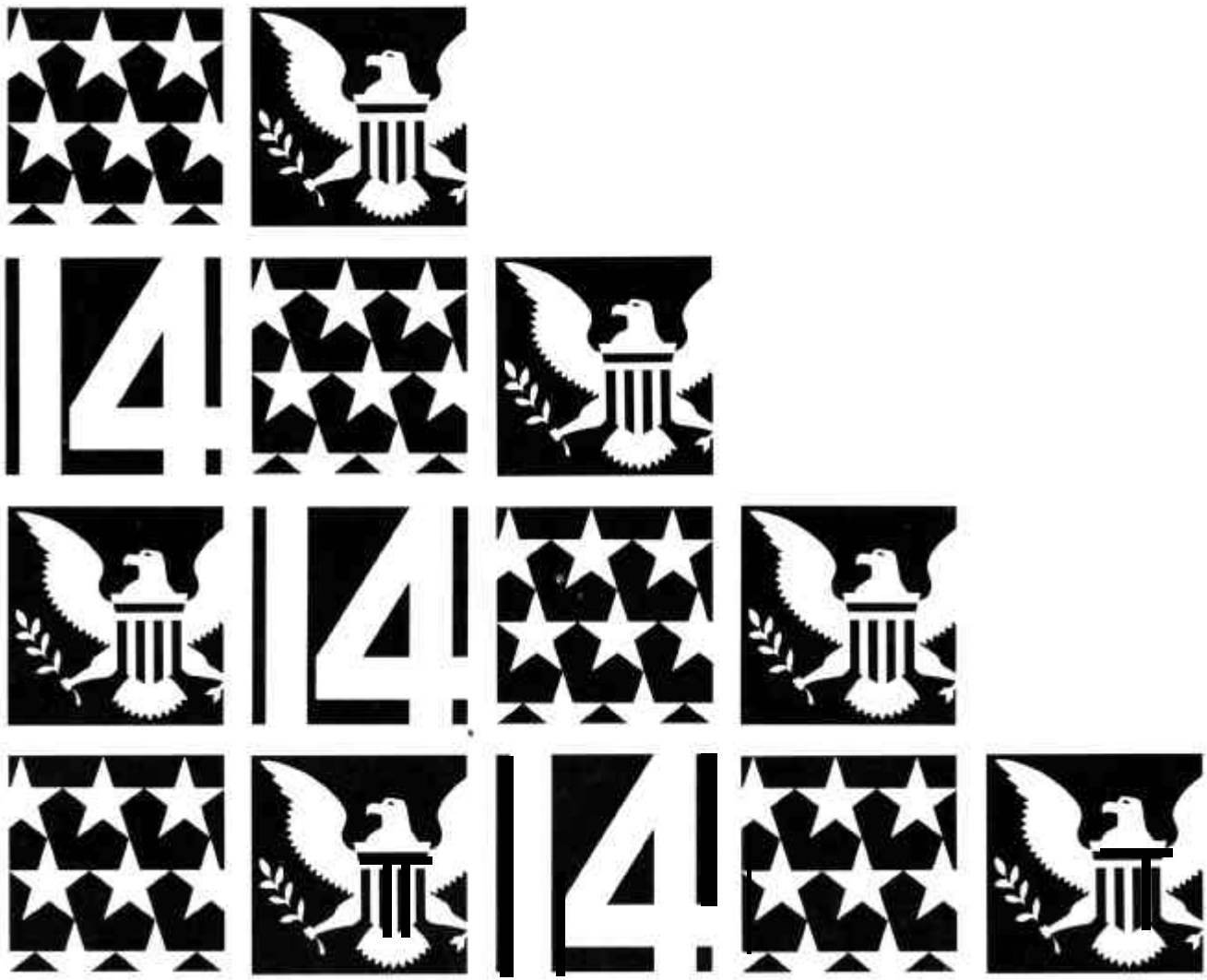
US Army Corps of Engineers
Office of the Chief of Engineers

14th Design and Environmental Awards Program



Foreword

This is the 14th year that the US. Army Corps of Engineers has presented awards for excellence in design. The Corps' award program started with architecture the first year. Engineering was added the second, and landscape architecture was included the third year.

I congratulate the winners of the competition and recognize the contribution they have made to the program. The winners were selected by four panels of independent design professionals, recognized by their contemporaries as discriminating critics of design whose own work has received both national and international acclaim.

These winning projects will act as a constant reminder to us all of the importance of a job well done. I take deep pride in being a part of the organization that produced these winners.

As you review the accomplishments on the following pages, you will agree that my pride is justified.

J. W. MORRIS
Lieutenant General, USA
Chief of Engineers

Acknowledgements

We wish to express our appreciation to the officers, fellows, and members of the American Institute of Architects (AIA), the American Society of Civil Engineers (ASCE), the American Society of Landscape Architects (ASLA), the American Consulting Engineers Council (ACEC), and to the other distinguished professionals who unselfishly contributed their expertise and support to make this year's competition an outstanding success.

The Program

The Chief of Engineers Design Awards Program is organized to recognize excellence in architecture, engineering, landscape architecture, and environmental achievement related to structures completed or areas developed by the Corps and their consulting firms worldwide. For equity in the selection of projects, each entry is judged on the basis of fulfillment of its own requirements and the solution to its own particular problems.

Awards of Merit are made for winning designs, and an Honor Award may be given for a design which exemplifies exceptional achievement in a particular category. Honorable Mentions may be given to recognize a particular superior feature of a project. The competition is open to both Civil Works and Military Construction projects, regardless of the agency for whom the work was done.

The objective of the program is to encourage creative design quality that is functional, economical, attractive, and in harmony with the environment.

Chief of Engineers 14th Design and Environmental Awards

Architecture

Honor Award

Landing Gear Overhaul Facility
Hill Air Force Base, Utah

Award of Merit

Research Animal Isolation Facility
Aberdeen Proving Grounds, Maryland

Honorable Mention

Building 49 Tower
Fort Sheridan, Illinois

Camp Darby Medical Clinic
Livorno, Italy

Patch Barracks Elementary School
Stuttgart, Germany

Engineering

Award of Merit

Parrotts Ferry Bridge
Vallecito, California

Wolf Creek Dam — Diaphragm Wall
Lake Cumberland, Kentucky

Honorable Mention

Local Flood Protection — Cedar River
Waterloo, Iowa

McDowell Exhibit Plaza
Scottsdale, Arizona

Landscape Architecture

Honor Award

Lake Washington Ship Canal Fish Ladder and Commodore Park
Seattle, Washington

Award of Merit

Commissary
Ft. Stewart, Georgia

Lewiston Levee Beautification
Clarkstone, Washington

Honorable Mention

Flower Hill Cemetery
Omaha, Nebraska

McDowell Exhibit Plaza
Scottsdale, Arizona

Nemo Landing Public Use Area
Pomme De Terre Lake, Missouri

Environmental

Honor Award

South Fork Wildlife Management Area
Isabella Lake, California

Award of Merit

Carlyle Lake Interpretive Program
Carlyle, Illinois

McDowell Exhibit Plaza
Scottsdale, Arizona

Operation Fish Run
Pomeroy & Starbuck, Washington
Umatilla, Oregon

Honorable Mention

Black Willow Water Trail
Loyalhanna Lake, Pennsylvania

Forest and Vegetative Management Plan
Pomona, Melvern, Milford & Wilson Lakes, Kansas

Lake Barkley Fish Populaiton Study
Lake Barkley, Kentucky

Special Recognition Award

McDowell Exhibit Plaza
Scottsdale, Arizona

Architectural Jurors

Geroge E. Hartman

Hartman is a fellow of the American Institute of Architects (AIA) and a member of the National Council of Architectural Registration Boards. His firm is Hartman-Cox Architects of Washington, D.C. founded in 1965.

After receiving his Bachelor of Arts from Princeton University in 1957, Hartman continued his formal education and received a Master of Fine Arts degree from Princeton in 1960. After graduation he served as Architect to Princeton's Archaeological Excavation in Italy.

Hartman has served as a faculty member in the School of Architecture at Catholic University of America, a Kea Distinguished Professor at the School of Architecture at the University of Maryland, and as a visiting professor at the School of Design at North Carolina State University.

In addition, Hartman has been chairman of the AIA Design and National Capitol committees. He has also been a contributing editor for the Journal of Architecture Research and a member of the Architectural Review Panel for the District of Columbia Department of Housing and Community Development. He also was chairman of the AIA's Custom Jury for the Homes for Better Living Awards.

Anna M. Halpin

Anna Halpin is currently the vice-president of the American Institute of Architects (AIA). She is manager of Professional Marketing Programs for Sweet's Division of McGraw-Hill Information Systems.

After receiving her Bachelor of Science degree from the University of Illinois at Urbana, she has practiced architecture for many years in firms on both the East and West Coasts.

Halpin serves on the Board of Directors of the AIA. She currently represents the AIA as the chairwoman of the Design Sector of the Construction Industries Coordinating Committee of the American National Metric Council. She chairs the Public Relations Commission, and is a member of the Planning and Secretary's Advisory Committees. In addition to serving on several AIA national committees, she has been a member of the board of directors of Production Systems for Architects and Engineers Inc., a member of the task force for Women in Architecture, and a member of the Committee on Office Practice.

Halpin was co-organizer of the first exhibition of the work of women architects of the New York Chapter of AIA and was a member of the Coordinating Committee which organized the Alliance of Women in Architecture in New York. She is a member of the Advisory Commlssion for Architectural Curriculum for New York City Community College, the Construction Specifications Institute, the Women's Equity League, and the East Fifties Association.

In 1977 Hartman was elected to fellowship of The American Academy in Rome. He has served as a juror at many national architectural awards competitions, and has lectured at numerous institutions of higher education and professional societies as well as the Corcoran Gallery of Art and the Smithsonian Institution.

William Turnbull, Jr.

William Turnbull, Jr. is presently the director of MLTW/TurnbuII Associates. He received Bachelor of Arts and Master of Fine Arts degrees from Princeton University. He also attended the Ecole des Beaux Arts de Fountainbleau.

Turnbull has been a lecturer at the College of Environmental Design at the University of California at Berkeley and at the Department of Architecture at Stanford University. He was a Visiting Professor at the Department of Architecture at the University of Oregon. He has served as visiting critic at the schools of architecture at the Massachusetts Institute of Technology and Yale University. He was also an architectural critic at the University of California at Berkeley.

In addition, Turnbull is a fellow of the Kresge College of the University of California at Santa Cruz and the American Institute of Architects. He has received the American Institute of Architects Student Medal.

Turnbull is a member of the Massachusetts Institute of Technology, Council on the Arts. He is a design consultant to the Formica Corporation and the World Savings and Loan Association. He has served as a member of the Citizens' Technical Advisory Committee to the California Legislative Joint Committee on Open Space Lands. He has served on numerous architectural award juries including the American Institute of Architects Honor Award Jury.

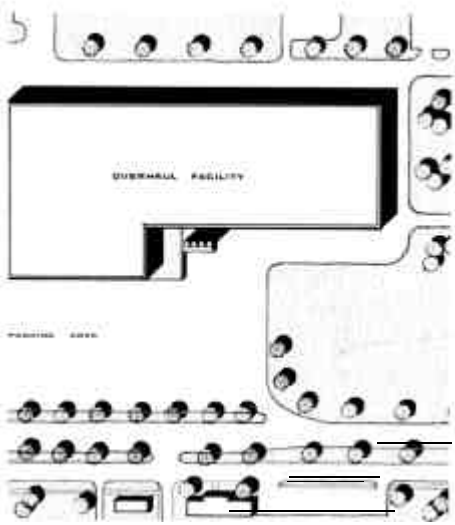
Harry Charles Wolf

Wolf received his Bachelor of Science degree from Georgia Institute of Technology and a Bachelor of Architecture degree from the Massachusetts Institute of Technology. His firm is Wolf Associates of Charlotte, North Carolina.

Wolf has served as chairman of the American Institute of Architects National Committee on Design and their Sub-Committee of the Nation's Capitol Committee on Design. He is also an affiliate member of the American Institute of Planners.

In 1969 Wolf was appointed by the Charlotte City Council and the Mecklenburg County Commission to the Joint Coordinating Committee on Urban Affairs and Environment. He also served as a member of the Physical Environment Subcommittee of the Charlotte-Mecklenburg Citizens Committee on Urban Living. He is director of the Mint Museum of Art; past president and director of the Charlotte Nature Museum; and past chairman and director of the Charlotte Nature Museum Foundation.

He was director of the Central Charlotte Association for eight years and the Charlotte Chamber of Commerce for four.



In addition, Wolf is a member of the Newcomen Society of North America. He is past director of the North Carolina Design Foundation, and has served as a member of the MIT Educational Council. He has lectured at many universities and has been a juror at many prestitious architectural awards competitions.

Wolf has won the National American Institute of Architects Honor Award on two occasions, in 1971 and again in 1974. That award is the nation's highest professional recognition for architectural excellence. He has also won the National Architectural Record Award for Interiors on two occasions. He has won numerous local and regional architetural awards as well.

Architecture

Honor Award

Landing Gear Overhaul Facility
Hill Air Force Base, Utah

Design by: Edwards and Daniels Associates, Salt Lake City, Utah; Reid and Tarics Associates, San Francisco, California, and PBQ&D, Inc., San Francisco, California

Design Supervision by: Sacramento District

Landing Gear Overhaul Facility

The users required this building to upgrade the character and appearance of the general area. A carefully detailed combination of low maintenance materials accented by bronze-tinted glazing and brightly-painted steel columns projects an image of administrative and industrial efficiency. By using functional elements in a decorative manner all extra embellishments were eliminated. Angular glazing also admits daylight into the work area while creating an exterior wall wash of artificial light at night: the exterior columns also permit unobstructed perimeter circulation inside the building.

This project provides facilities for the disassembly, cleaning, inspection, overhaul and reassembly of aircraft landing gear and missile components.

Material handling procedures dictated a single-story solution. Support areas were accommodated by a partial mezzanine, with a cafeteria above and administrative spaces below. The cafeteria on the mezzanine level has excellent views of the valley and mountain beyond.

The solution generated a distinctive exterior appearance. The long wall surfaces are punctuated by exterior columns which express the interior bay sizes. Precast concrete wall panels stop short of the roof framing above, allowing a continuous band of glazing. By placing the perimeter columns outside the wall line, a roof overhang is created which shades the glazing from direct light and provides a deep fascia. The total effect of the above is an articulation of the exterior wall which visually reduces the massive scale of the building and makes it compatible with its surroundings.

Jurors' Comments

"This building is a direct and straightforward solution to a strong functional program, and has been carefully and appropriately detailed. As a result, the no-nonsense quality has generated a well deserved dividend of simplicity where the building contrasts effectively with the natural drama of its environment."

Architecture

Award of Merit

Research Animal Isolation Facility
Aberdeen Proving Grounds,
Maryland

Design by: Hayes, Seay, Mattern and Mattern, Roanoke, Virginia

Design Supervision by: Baltimore District

The problem was to design a three-component research facility on a partially-wooded, rolling site. Each component had to have autonomy without sacrificing the overall look of unity. Traditionally, buildings of this nature have been designed to screen service areas and articulate the "front," and mechanical elements have been roof-mounted and extremely "busy" looking.

The objective here was to let the building express its multi-faceted character in a very clean way, and to separate dissimilar service points and locate them as dictated by function. The office/lab wing is separated as a frontal element, but not to the extent that it appears unrelated. All building exhaust stacks have been grouped into sets of major stacks which tend to harmonize with the balance of the structure.

This type of building needed one unifying material to act as a sheathing system over all the various components. Brick masonry, because of its durability and scale, was selected for the purpose.

Jurors' Comments:

"This building is an appropriate, consistent and thoughtful resolution of a complex programatic structure through the use of formal devices."

Architecture

Honorable Mention

Patch Barracks Elementary School
Stuttgart, Germany

Design by: GUS, Gesellschaft fuer
Umweltplanung Stuttgart mbH
Stuttgart, Germany

Design Supervision by:
European Division

Jurors' Comments:

"The project presents a collection of large and small places for big and little people, and is uncharacteristically not cast in an institutional framework. This building utilizes a human scale that responds to the particular issues of the site, orientation and function, and develops a sense of specialness out of the particulars unique to the project."

Architecture

Honorable Mention

Camp Darby Medical Clinic
Livorno, Italy

Design by: Benham-Blair and Affiliates, Inc., Oklahoma City, Oklahoma

Design Supervision by: European Division

Jurors' Comments:

"Through the sensitive use of scale and siting, a friendly alternative to the often found chillingly impersonal architecture of health facilities has been produced. An appropriately understated architecture has been created allowing the beautiful trees existing on the site to dominate the scene."

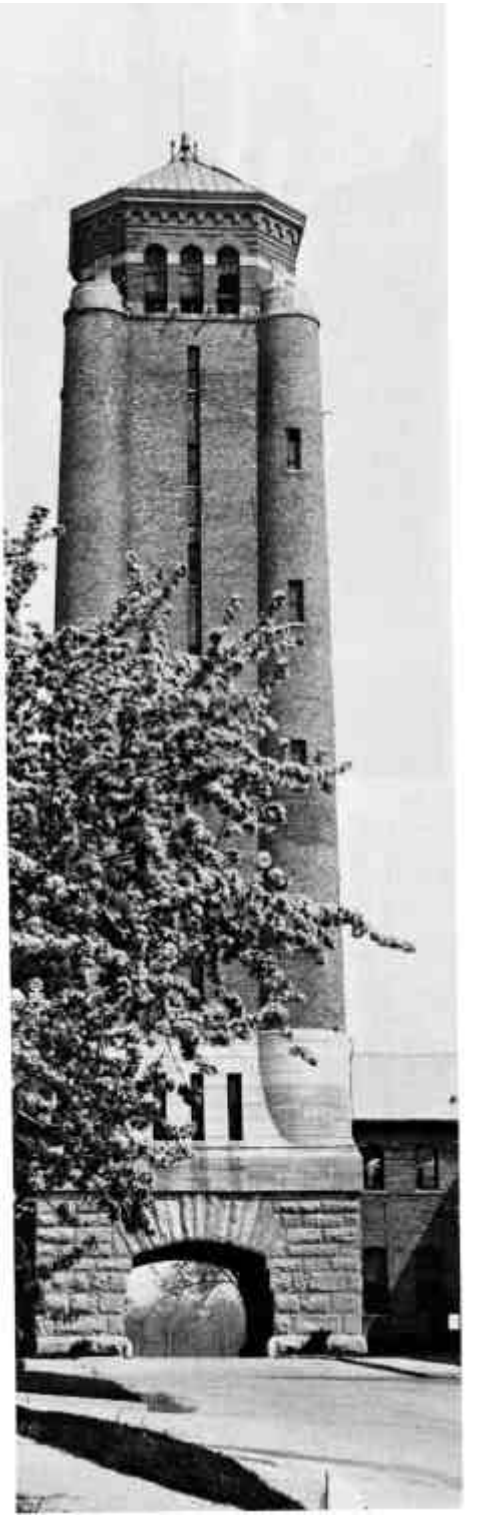
Architecture

Honorable Mention
(Rehabilitation)

Building 49 Tower
Fort Sheridan, Illinois

Design by: Holabird and Root, Chicago, Illinois

Design Supervision by: Omaha District

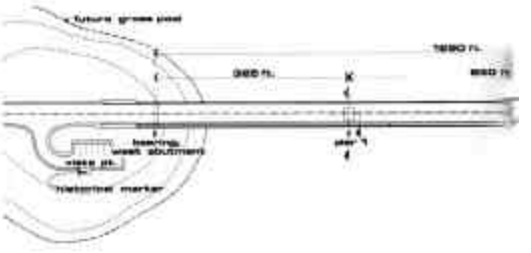


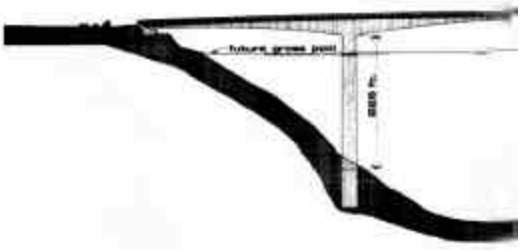
Jurors' Comments:

"The display of sensitivity in recognizing the resources of an older existing landmark and choosing the more difficult task of restoring the *tower is recommendable, as opposed to automatically removing or replacing it.*

The decision to restore and maintain the visual integrity of the original structure was as important as the *sensitive way in which the restoration was implemented."*

Engineering Jurors





Julio M. San Jose

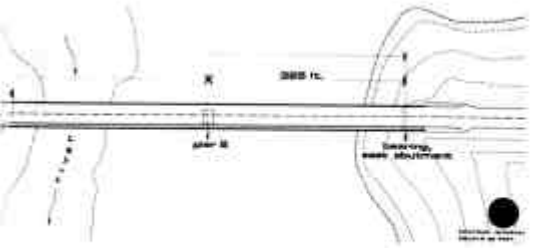
Julio M. San Jose is presently the dean of the College of Architecture and Urban Studies at Virginia Polytechnic Institute and State University. He began his academic career as an assistant professor at the School of Architecture and Allied Arts, University of Oregon. San Jose later served in positions leading to acting dean at the School of Architecture, Syracuse University.

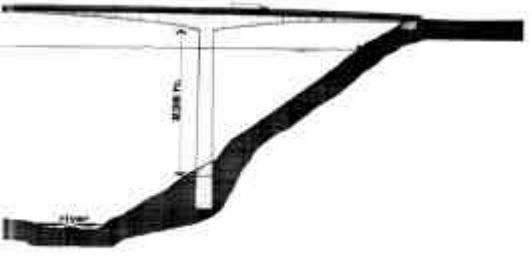
After receiving his Bachelor of Science degree from the School of Architecture at the University of Madrid, Spain in 1954, he was awarded a Fulbright postgraduate scholarship to the United States. A year later he received a Master of Architecture degree from the School of Architecture and Allied Arts at the University of Oregon. San Jose continued his education and received a Doctorate degree in Architecture from the University of Madrid in 1960.

San Jose was a former partner with the Architects Cooperative Partnership, a firm of architects and planning consultants in London, England. He has completed architectural projects in Madrid, London, Ghana and the United States.

A registered architect in Spain, San Jose is a member of the Spanish College Architects, British Town Planning Institute and the American Society of Planning Officials. He was honored with the Silver Medal Award from the British Town Planning Institute for his proposal to rehabilitate the Bloomsburg historic area in London.

In addition, San Jose is the author of numerous articles which have appeared in such prestigious publications as the Pepperdine Law Review, Maxwell Review and Town and Country Planning Journal.





Everett S. Thompson

Everett S. Thompson is president of the American Consulting Engineers Council. At the time of the competition he was the president-elect. He is also past vice president and chairman of the National Society of Professional Engineers. He is a charter member of the Michigan Association of Professions, and a member of the Michigan Engineering Society, Michigan Society of Registered Land Surveyors, Michigan Society of Planning Officials, American Society of Civil Engineers, and the American Arbitration Association.

Thompson is president of Williams and Works, Inc. This firm specializes in civil and sanitary engineering and has a total of 360 staff members. Prior to joining Williams and Works, Thompson was the city manager for St. Johns, Michigan.

He holds a Bachelor of Science degree in civil engineering and a Bachelor of Arts degree in public administration. Both of these degrees were awarded by Michigan State University in 1951.

Thompson is a registered professional engineer in Michigan and eight other states. He is a registered land surveyor and professional community planner in Michigan.

Thompson was selected as “Engineer of the Year” by the Western Chapter of the Michigan Society of Professional Engineers in 1970. He is also listed in Who’s Who in America.

Engineering

Award of Merit

Parrotts Ferry Bridge, Vallecito, California

Design Firm: Howard Needles Tammen and Bergendoff, Seattle, Washington

Design Consultant: T.Y. Lin International, San Francisco, California

Design Supervision: Sacramento District

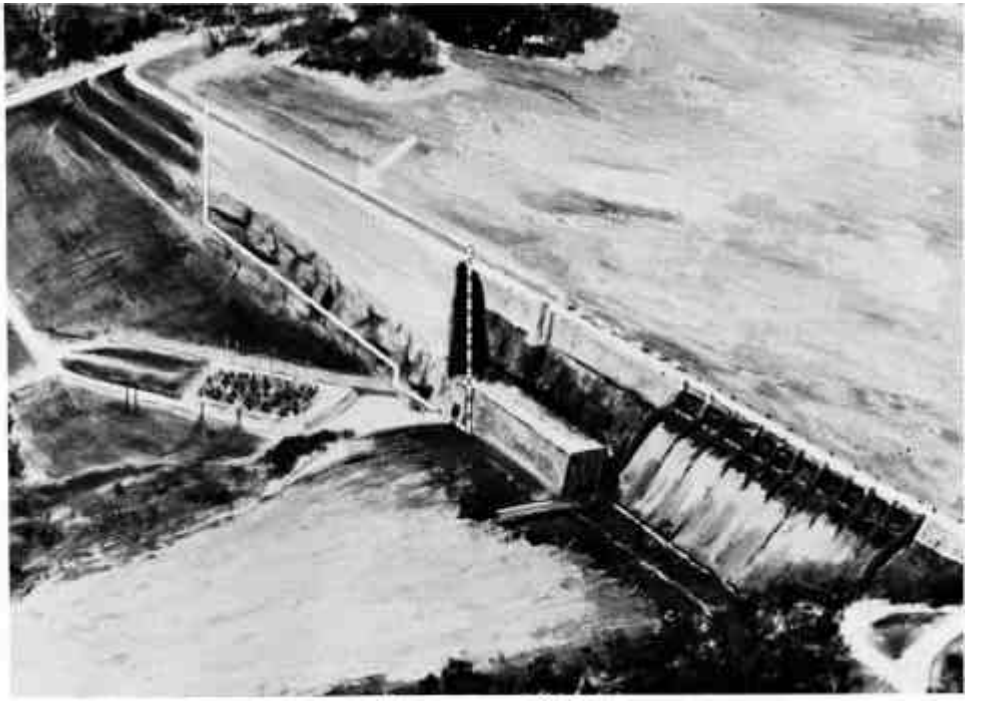
Jurors' Comments:

"The design pushes the use of existing technology, to build the longest bridge span in the U.S. to date, using segmental cantilevered construction. It is also the longest span in the world using lightweight concrete. The structure produces minimal disruption to the environment, both visually and physically. It is simple form, expressing rather elegantly the nature of what it is to span a gulf."

A major dam, about five miles downstream of an existing river crossing, was scheduled for completion in 1979. Filling of the reservoir formed by the dam will cover the existing road and bridge at this crossing with approximately 250 feet of water. Because the road and bridge were important elements of the county road system their relocation was mandatory. A key part of the solution to this relocation problem was the construction of Parrotts Ferry Bridge.

The bridge was designed and constructed using a superstructure of lightweight concrete. The supporting piers and abutments were designed and constructed using regular weight concrete. The 640-foot center span is the longest bridge span in the United States using the segmental cantilever construction method. It is also the longest span in the world using lightweight concrete. The use of lightweight concrete in the bridge superstructure is a unique design feature of this project and represents a significant achievement in bridge design and construction.

Engineering



Award of Merit

Wolf Creek Dam — Diaphragm Wall
Lake Cumberland, Kentucky

Design by:
Nashville District

Located at the head of the Cumberland River, Wolf Creek Dam was designed prior to Wold War II, but was not completed until 1951. In 1968, muddy flows in the river and sink holes in the toe of the dam were found to be linked to seepage beneath the embankment dam. The pre-war design of the dam was not adequate to prevent this long-term development. Although emergency grouting probably averted a major failure at the time the problem occurred, with the aid of outside consultants, the Corps decided to build a concrete diaphragm wall to solve the problem. The wall provides permanent protection against future seepage beneath the embankment dam..

After careful study of various means of providing this cutoff, the Corps decided on a two-foot thick concrete wall extending some 2200 feet along the upstream crest of the embankment through the dam and foundation. It consists of interlocking "primary" and "secondary" elements that form a continuous, watertight wall.

Jurors' Comments:

"The project implements a direct, clear concept giving a unique solution to a problem that is unusually complex in its resolution. It is the first time this corrective technique has been used on such a structure to a depth of 300 feet, and the last 100 feet being rock. Precision was required during the construction to insure a satisfactory solution."

Engineering

Honorable Mention

McDowell Exhibit Plaza, Scottsdale, Arizona

Design by:
Los Angeles District

Jurors' Comments:

"The original flood plain consisted of a small mesquite grove, and nothing more. A straight engineering solution would have added nothing to the environment. With a minimum of resources at hand the designers enhanced the land and created an area with great potential and variety, contrasting the grove with a hard, man-made design. Separate water paths have been created for the daily stream flow, the five year storm and the 100-year flood, all of which blend with the overall design."

Engineering

Honorable Mention

Local Flood Protection Project
Cedar River at Waterloo, Iowa

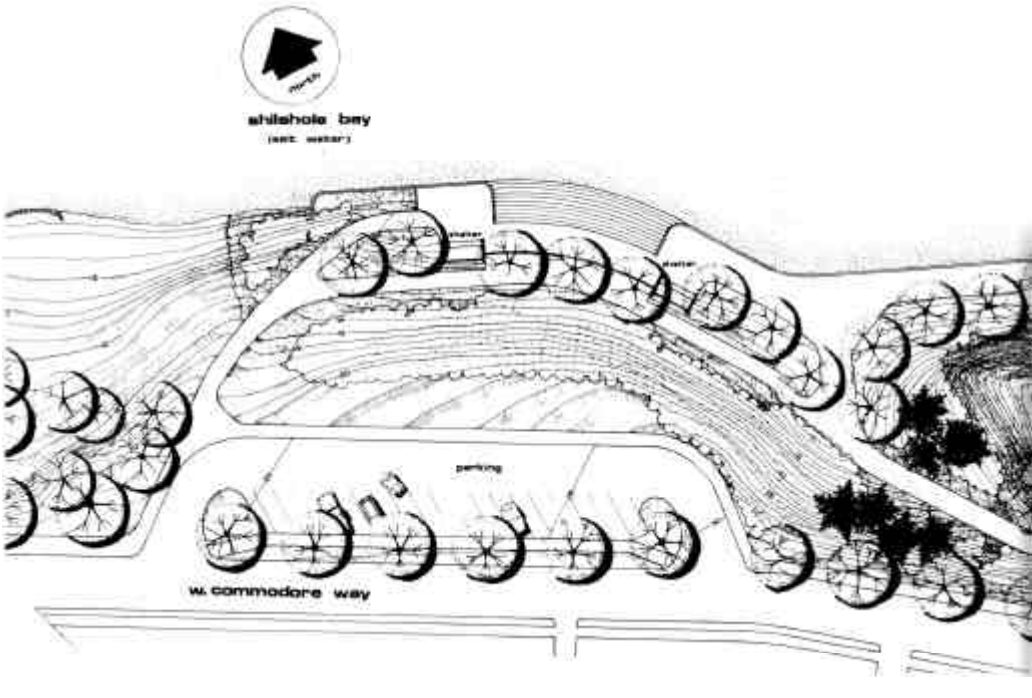
Design by:
Rock Island District

Jurors' Comments

"A typical engineer's solution would have been a straight concrete wall. However, the designers for this project tried to address the potential of a river going through a city. The jurors regret that the designer's did not look at other precedents and solutions. The designers could have avoided what amounts to an agglomeration of interesting but unrelated features.

Nevertheless, the jurors wish to encourage the kinds of solutions to flood control problems shown by the two projects cited for honorable mention. The significance of natural elements, such as rivers, has been recognized in the designers efforts to bring these elements closer to the urban dweller."

Landscape Architecture Jurors



Claire Avis

Claire Avis is an associate partner of Harland Bartholomew and Associates of St. Louis, Missouri. She earned a Bachelor of Architecture degree (with high honors) from Washington University in St. Louis in 1941. She has practiced landscape architecture ever since her graduation.

Avis' experience includes a wide variety of projects for private and public clients in locations throughout the United States.

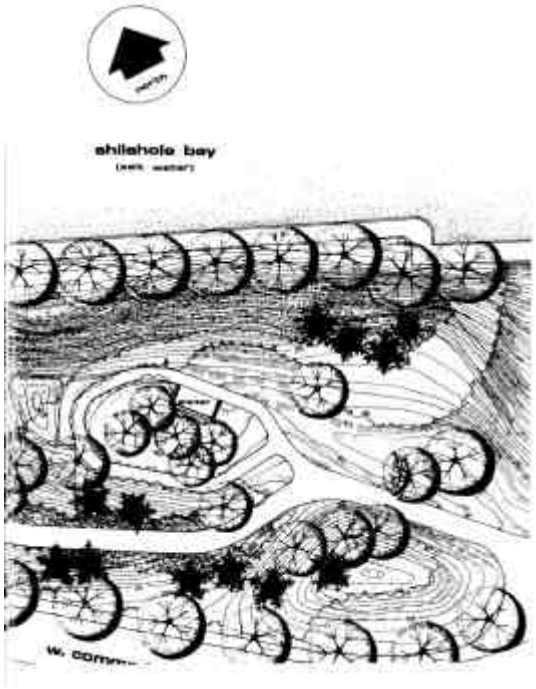
Avis became a member of the American Society of Landscape Architects in 1954. For the past ten years she has chaired the St. Louis Chapter Examining Board. Avis has been treasurer for the Missouri Association of Landscape Architects since it was organized in 1966. In addition, she has been an associate member of the American Institute of Architects, St. Louis for twenty years.

Avis has designed over 100 residential subdivisions in a-dozen states. She has helped plan shopping centers, industrial subdivisions, and many campuses. In addition, she has planned new towns, parks, and military installations. Her scope of studies include: site analysis, determination of required facilities, site planning, expansion capability, environmental assessments, staging and cost estimates.

Avis is a member of the American Society of Landscape Architects, Missouri Association of Landscape Architects, and Women in Architecture — St. Louis.

Gerald J. McLindon

Gerald J. McLindon is Dean of the College of Design at Louisiana State University in Baton Rouge, Louisiana. Dean McLindon received a Bachelor of Architecture (with honors) degree from the University of Liverpool and a Master of Landscape Architecture from Harvard University.



He also graduated from the City and Guilds of London in Structural Engineering with honors and has a diploma in Civic Design (Masters Degree in City Planning), from the University of Liverpool. He has been employed in teaching and public planning practice and established his own private practice as a Planning Consultant, working on all aspects of planning.

McLindon served as a consultant to the business community of San Francisco working on the redevelopment of Market Street in that city. This project involved the coordination of the new Rapid Transit System into local developments. In September of 1966, he was appointed Dean of the new School of Environmental Design at Louisiana State University. He also serves as a consultant to several communities in the United States.

He is a member of the Louisiana Offshore and Terminal Authority Board of Commissioners and served as President of the American Council of Construction Education from 1977 to 1979 and now serves as a member of its Board of Trustees.

His other memberships include: Environmental Consultant to Rural Electric Cooperatives, The American Association of Cost Engineers, Chartered Architect in the United Kingdom, Corporate member of the Royal Institute of British Architects, and Fellow of the American Institute of Contractors.

Honors bestowed upon McLindon include the Alfred Holt Bursary in City Planning, University of Liverpool; Fulbright Scholarship, Landscape Architecture; Covenantor Scholarship, City Planning; Special Citation, Department of the Army; and Uriel H. Crocker Worldwide Scholarship in Landscape Architecture, Harvard University.

Robert L. Woerner

Robert L. Woerner is the President of the American Society of Landscape Architects. He-has been in private practice in Spokane, Washington since 1959. Woerner's landscape architectural work includes a wide variety of projects. He has been involved in landscape design for college buildings and numerous primary and secondary schools, including site, athletic field, irrigation and planting plans.

Many of the homes in Spokane and throughout the surrounding area reflect his talents in residential design. Two of his many commercial projects received state and national recognition — the Lincoln Plaza and the Washington Water Power Riverfront Development. The former project is a small elegant plaza in the business district which received an award in 1966 and is a landmark in the progress of civic beautification in Spokane.

Woerner received a Bachelor of Science degree from the College of Forestry at the State University of New York in 1949. He was also enrolled in the ASTP Program at the University of South Dakota. He is a registered architect in Washington, Idaho, and Montana.

In addition, Woerner is past president of the council of Landscape Architectural Registration Boards and a member of American Institute of Architects, and the Associate Landscape Contractors of America. He is also a Fellow of the American Society of Landscape Architects.

Landscape Architecture

Honor Award

Lake Washington Ship Canal Fish Ladder and Commodore Park Seattle, Washington

Designed by: R.W. Beck & Associates, Seattle, Washington; Jongejan/Gerrard/McNeal, Bellevue, Washington; and Don Seibold and Associates, Seattle, Washington

Design Supervision by: Seattle District

This fish ladder is part of a locking facility which was completed in 1916. The addition of the new ladder and park has greatly increased the attraction of one of Seattle's most popular facilities. The new design encourages public participation by using a lighted underwater viewing gallery and interpretive displays. Multi-media exhibits describe characteristics and life cycles of the salmon and trout species that use the fish ladder. A network of paths connect the fish ladder, locks, and park into a cohesive unit and provides access to other parks on the north and south side of the ship canal.

During the summer and fall, thousands of school children and tourists from around the state view the salmon and trout migrating to upstream rearing areas. The adjoining park provides shelter and pier space for large numbers of steelhead fishermen during the winter. The landscape grounds provide an opportunity for strolling and other recreation activities.

Jurors' Comments:

"A dramatic site has been intensely developed with well-planned and well-integrated facilities. Strong linear forms of walls, terraces and walkways reinforce drama — good transition from natural waterfront to intensive use areas adjoining the site. Planting design — provides a backdrop and successfully delineates the use area and recreation features."

Landscape Architecture

Jurors' Comments:

"This project reflects a refreshing departure from mundane commercial development. Preservation of existing pines and strategic locations is very commendable in the parking area."

Award of Merit

Commissary
Fort Stewart, Georgia

Designed by: Miller, Waltz, Diedrich & Associates, Inc., Atlanta, Georgia

Design Supervision by: Savannah District

As the central facility in a large complex, this commissary sets the style and serves as a model for the entire post. The building was designed to store, service and sell groceries and goods to over 40,000 customers. It includes a warehouse, cold storage and preparation area, waste treatment, parking, and landscaping.

The use of graphic representation of product areas and graphic signage aids those shoppers who are visually impaired or who are not native American, as is often the case with Commissary customers.

The unique graphics and contemporary decor add to the easily maintained and efficient interior. Minimum glass area, masonry walls and insulated roof system provide a low maintenance and energy efficient exterior. Landscaping and parking facilities are designed to preserve the natural growth and present a visually pleasing setting.

Landscape Architecture

Award of Merit

Lewiston Levee Beautification Project, Clarkstone, Washington

Designed by: Theodore Osmundson & Associates, San Francisco, California

Design Supervision by: Walla Walla District

The community of Lewiston in the past turned their backs to the river and used the brushy shoreline for depositing old car bodies, broken concrete and other garbage. The river is different in Lewiston today. An eight mile levee protects them from the floods and a beautification project has turned their faces toward a priceless natural resource. Bikers, joggers and recreationists now enjoy the shoreline while hundreds of waterfowl and wildlife now consider the landscaped collection ponds their home.

Jurors' Comments:

"Solution for planting, which protect the cove with gunite planters, blends well with the overall scheme. The 'flattened' backslopes were helpful contributions. Useful jogger/bike trail in urban area is an excellent contribution to the community. Consideration might have been given to additional height to the levee to provide some rise and fall. Walk alignment suffers from being straight."

Landscape Architecture

Honorable Mention

Flower Hill Cemetery
Omaha, Nebraska

Design by:
Omaha District

Jurors' Comments:

"A very reasonable solution to a difficult problem. Back slopes of levee blended well into the existing topography. A little less severity of line on the rip-rap would have improved the view from the water."

Landscape Architecture

Honorable Mention

McDowell Exhibit Plaza
Scottsdale, Arizona

Design by: Schoneberger, Straub, Florence & Associates, Phoenix, Arizona

Design Supervision by: Los Angeles District

Jurors' Comments

"Fountain sculpture reflects the dominant mountain backdrop. Salvaging the existing mesquite trees was very commendable. Multi-use concept based on sound engineering for various water flows is excellent."

Landscape Architecture

Honorable Mention

Nemo Landing Public Use Area
Pomme de Terre Lake in Missouri

Design by:
Kansas City District

Jurors' Comments:

"An interesting demonstration of rehabilitation. This development protects the site through improvement in traffic and use control. Good improvement in overall green spaces. Circular play space could have more informal shape."

Environmental Jurors

Hugh C. Davis

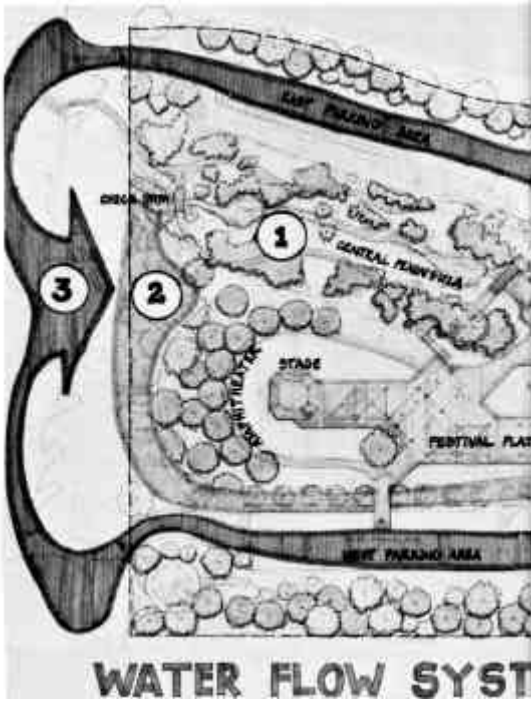
Hugh C. Davis is Professor of Regional Planning and Acting Director of the Environmental Institute at the University of Massachusetts, in Amherst. He received a Bachelor of Science degree from Rollins College in 1950 and Master of Science and Doctor of Philosophy degrees from the School of Natural Resources at the University of Michigan.

In the past Davis served with the Conservation Foundation and was Assistant Director of the Florida Audubon Society. After completing his graduate studies he became Assistant Director of the Population Reference Bureau in Washington, D.C. Later he joined the staff of the Outdoor Recreation Resource Review Commission and worked briefly for the Bureau of the Budget.

In 1971 Davis was appointed Assistant Secretary of the Office of the Executive Office of Environmental Affairs in Massachusetts. He held that position for three and a half years before returning to the University of Massachusetts.

Daniel A. Poole

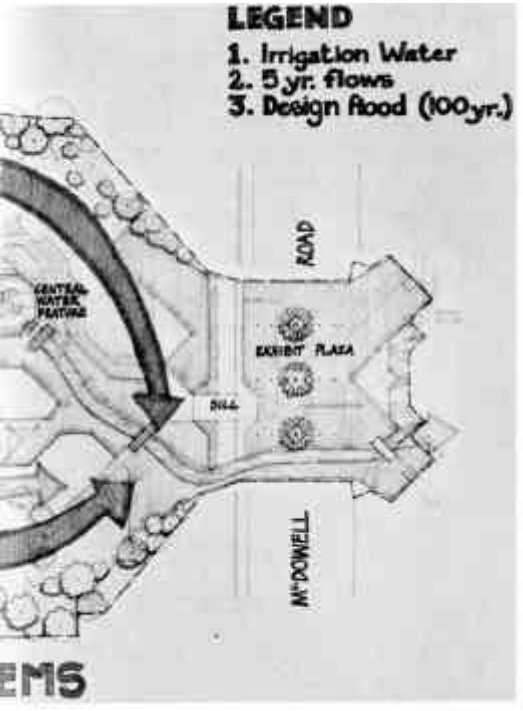
Daniel A. Poole is the president of the Wildlife Management Institute located in Washington, D.C. He holds Bachelor and Master of Science degrees in Wildlife Management from the University of Montana. Poole served with the Montana Department of Fish and Games and the U.S. Fish and Wildlife Service in California and Utah prior to joining the Institute's staff in Washington in 1952. He was elected secretary of



the Institute in 1963 and president in 1970.

In addition, Poole has served as chairman, vice-chairman and secretary of the Natural Resources Council of America, a service organization to nearly 50 of the nation's foremost conservation and environmental organizations and professional societies.

In 1966 and 1967, he served on a special advisory committee to the Secretary of Agriculture to review and comment on thee feasibility of the multiple-use plan prepared for an Idaho section of the Betterroot National Forest. He also authored a monthly column on wildlife subjects for the American Rifleman Magazine for over ten years. He has written numerous articles on conservation and wildlife for both newspapers and periodicals.



In 1969, he received the Jade of Chiefs award from the Outdoor Writers Association of America for distinguished service to conservation.

Poole is a trustee of the North American Wildlife Foundation, which owns the famed Delta Water fowl Research Station in Manitoba. He is a member of the Wildlife Society, Boone and Crocket Club and the Outdoor Writers Association of America.

Carl R. Sullivan

Carl R. Sullivan is the Executive Director of the American Fisheries Society, the world's oldest and largest organization of fisheries scientists with headquarters in Bethesda, Md. He received a Bachelor of Science degree in Forestry and Wildlife Management in 1950 from West Virginia University and a Master of Science degree in Hydrobiology from Ohio State in 1953.

Sullivan served as Assistant Chief of the Fish Division of the West Virginia Conservation Commission from 1951 until 1955. Later he jointed Kaiser-Aluminum, first as Land Manager and later as Public Relations Manager of the Ravenswood Works of Kaiser Aluminum.

In 1962, Sullivan left Kaiser Aluminum to plan, organize and direct West Virginia's highly successful state-wide centennial celebration. He completed a similar assignment for the Alaska centennial.

In 1972, Sullivan elected to return to the fisheries field as Executive Secretary of the Sport Fishing Institute in Washington, D.C.

He was elevated to Executive Director of the American Fisheries Society in 1975. His responsibilities include: legislative work on national conservation issues; editing a bimonthly fisheries management journal; liaison with federal renewable natural resources agencies; monitoring of the full range of marine and freshwater fisheries development and coordination of the society's wide-ranging renewable resource activities.

Environmental

Honor Award

South Fork Wildlife Management Area, Isabella Lake, California

Design by:
Sacramento District

Approximately 1,380 acres along the South Fork Kern River at Isabella Lake were converted from agricultural use to a wildlife management area. The area includes development and r-e-establishment of upland, wetland and riparian habitat areas for nature study, hunting, and other compatible outdoor activities.

Formal development consists of two small parking lots, a trail system, an assembly area, and portable restrooms.

Jurors' Comments:

"An inexpensive yet highly significant habitat improvement project which demonstrates Corps of Engineers' knowledge and appreciation of the most important environmental values as well as the remarkable capacity of nature to heal its own wounds."

Environmental

Jurors' Comments:

"This project demonstrates the Corps of Engineers' willingness and ability to work with other agencies and private groups in a significant interpretative and education program. The program is a significant step forward in public education of ecological principles and environmental resource management."

Award of Merit

Carlyle Lake Interpretation Program
Clinton, Illinois

Design by:
St. Louis District

The development of an Interpretative Site Plan was undertaken in 1977 at Carlyle Lake. Its development enhanced the Corps of Engineers' role in the resource management field. This included the creation of displays, brochures, interpretative programs and guided tours.

Through this, local communities have learned to appreciate their environment and what has to be done to help the area's natural resources.

Additionally, outdoor amphitheaters serve as focal points for interpretative programs. Nature trails, developed and constructed with Youth Conservation Corps (YCC) help, give the lake visitors the opportunity to view the natural resources afforded by Carlyle Lake.

Environmental

Award of Merit

Operation Fish Run
Pomeroy, Washington
Starbuck, Washington
Umatilla, Oregon

Design by:
Walla Walla District

Jurors' Comments:

"In recognition that its hydroelectric dams have severely impacted anadromous fisheries resources in the Columbia River, the Corps has partially solved downstream migration and turbine-caused mortality problems. They used innovative fishway engineering and vehicular transportation of juvenile salmon."

In an effort to reduce juvenile salmonid mortalities as they migrate to the sea, fish handling facilities have been installed at key Corps hydroelectric dams. These facilities consist of deflection, bypass and collection systems designed to carry the juveniles around the dam instead of through them.

From these collection points the fish are either trucked in specially equipped tanker trucks or barged downstream to release points below the first dam on the Columbia River. Adult return success ratios for transported juveniles compared to those fish allowed to migrate without transportation approach 23:l.

Environmental

Award of Merit

McDowell Exhibit Plaza
Scottsdale, Arizona

Design by:
Los Angeles District

McDowell Exhibit Plaza is an eight acre park that is part of the larger Indian Bend Wash Greenbelt Floodway. The Greenbelt Floodway and McDowell Exhibit Plaza are designed to pass flows of up to 30,000 cfs. The plaza is an outstanding example of a multi-purpose planning in which the engineering solution to the hydraulic requirements allowed the incorporation of recreation facilities in the final project design.

McDowell Exhibit Plaza features three interrelated plaza areas capable of hosting art shows,, fairs and outdoor theater. The plaza includes a performing stage which faces a grassed amphitheater. It also features a picnic area for passive day use, a bicycle and hiking trail, and a sculptural fountain which stands as the visual focal point in the plaza.

The recreation features are designed to withstand and aid in the passage of flood flows. Manipulation of topography, paving materials, and design all work together to satisfy the multipurpose objectives of the park.

Jurors' Comments:

"This project represents a sensitivity to the natural environment in an urban setting. It combines the best of environment control and management with natural and man-made design materials."

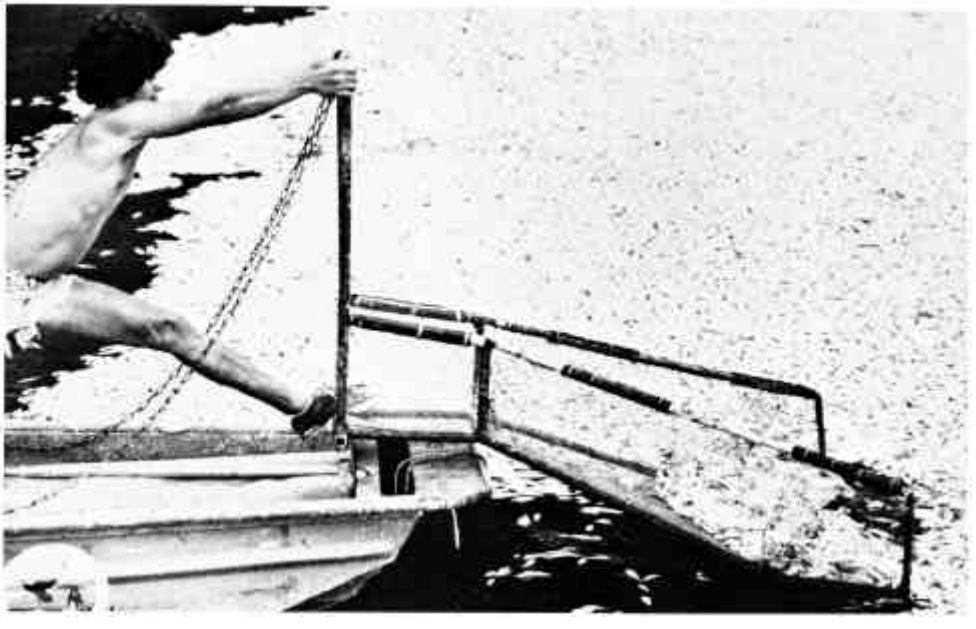
Environmental

Honorable Mention

Lake Barkley Fish Population Study

Design by: Southern Division,
American Fisheries Society

Lead Corps Cooperator:
Nashville District



Jurors' Comments:

"This project demonstrates the Corps of Engineers' strong concern with fish and wildlife values and shows close cooperation with responsible management agencies. Results hold promise of important improvements in reservoir management techniques."

Environmental

Honorable Mention

Forest & Vegetative Management Plan, Pomona, Melvern, Milford, and Wilson Lakes, Kansas

Designed by: Kansas State Forester, State and Extension Forestry, Manhattan, Kansas

Design Supervision by: Kansas City District

Jurors' Comments:

"This program displays the great potential for creating wildlife habitat and recreation environment through imaginative use and careful man-agement of p/ant materials."

Environmental

Jurors' Comments:

"An effective, imaginative, environmentally sensitive and incredibly inexpensive approach to providing public access to and understanding of unique natural areas."

Honorable Mention

Black Willow Water Trail
Loyalhanna Lake, Pennsylvania

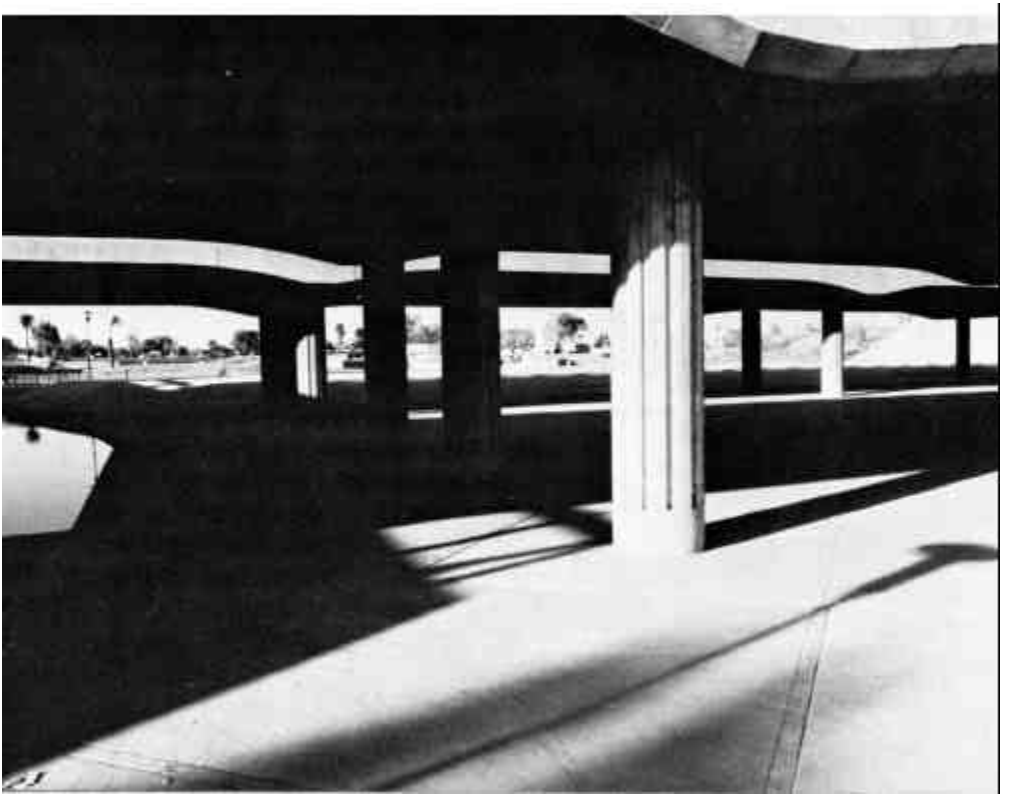
Design by:
Pittsburgh District

Environmental

Special Recognition Award

McDowell Exhibit Plaza
Scottsdale, Arizona

Designed by:
Los Angeles District



A special award was given to the Los Angeles district for the McDowell Exhibit Plaza in Scottsdale, Arizona. The special award recognizes the project for its "total team approach." Manipulation of topography, paving material, landscape material, and design all work together to satisfy the multipurpose objectives of the project.

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